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SOURCE Kita Shina Kogyo Ippan Shiryo (Data on North China's Industry),
 published by the Research Section, South Manchurian Railway

TEXTILE AND METALWORKING INDUSTRIES IN NORTH CHINA

Summary: The following report is based on information from the
 Japanese document, Kita Shina Kogyo Ippan Shiryo (Data on North
 China's Industry), published by the Research Section, South Man-
 churian Railway, Dairen, December 1937. Listed are the names of
 42 textile mills and 15 metalworking plants, with the following
 data on each plant: location, date established, capital, organiza-
 tion, installations, number of workers, basic raw materials, annual
 production, and remarks.

Part I, Textile Industry, is divided into Cotton Industry, Wool
 Industry, and Silk Industry; Part II, Metalworking Industry, is divided
 into Iron and Steel Industry, Machinery Industry, Metal Products
 Industry, and Watch Manufacturing Industry.

Note: The term "staff members" in the text indicates office
 and/or administrative personnel.

PART I: TEXTILE INDUSTRYCotton IndustryName of plant: Yu-ta Spinning and Weaving Company 裕大紡織公司

Location of plant: Tientsin, Lao-yen-t'o-ti

Date established: January 1925

Capital: 3 million yuan

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Organization: Joint-stock company

Installations: Spining machines, 40,320 spindles; twisting machines, 2,400 spindles; electric motors, 1,400 kilowatts; power (steam), 1,500 horsepower

No of workers: 1,390

Basic raw materials: Raw cotton. Consumes 46,541 piculs per year

Annual production: Cotton yarn -- 1933, 22,610 bales; 1934, 14,119 bales; 1935, 20,920 bales

Remarks: Founded February 1922 by Chinese. On January 1925, the Yu-ta Spinning and Weaving Company became the property of the Ofuku Company. Since then, there has been an improvement in management and in the facilities. Trademarks -- Pa-ma, Ta-fu

Name of plant: Pao-ch'eng No 3 Spinning and Weaving Company
(Japanese-owned)

寶成第三紡織

Location of plant: Tientsin, Lao-yen-t'o-ti

公司

Date established: July 1926

Capital: --

Organization: Joint-stock company

Installations: Spinning machines, 27,032 spindles; twisting machines, 2,400 spindles; electric motors, 1,050 kilowatts

No of workers: --

Basic raw materials: --

Annual production: Cotton yarn -- 1933, 13,019 bales; 1934, 17,225 bales; 1935, 9,015 bales

Remarks: Founded January 1922 by Chinese, with capital totaling 3 million yuan. As of July 1936, the company had assets amounting to 1,375,000 yuan. The company was purchased by the Ta-fu Company in 1936.

Name of plant: Kung-ta No 6 Factory (Japanese-owned, formerly the Yu-yuan Cotton Mills)

公大第六廠(舊裕元紗廠)

Location of plant: Tientsin, Hsiao-liu-chuang

Date established: June 1936

Capital: 2,500,000 yuan

Organization: Joint-stock company

Installations: Facilities under the Yu-yuan Company -- spinning machines, 72,326 spindles; looms, 1,000. Initial enlargement plan by the Kung-ta Company -- spinning machines, 100,000 spindles; looms, 1,500

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No of workers: --

Basic raw materials: --

Annual production: --

Remarks: Founded April 1918 by Chinese, with capital totaling 5,600,000 yuan.

Name of plant: Kung-ta No 7 Factory (Japanese-owned, formerly the Hua-hsin Cotton Mills) 公大第七廠(舊華新紗廠)

Location of plant: Tientsin, Hopeh-hsiao-yu-chuang

Date established: August 1936

Capital: 1,200,000 yuan

Organization: Joint-stock company

Installations: Spinning machines, 30,272 spindles

No of workers: --

Basic raw materials: Raw cotton. Consumes 56,835 piculs per year

Annual production: Cotton yarn -- 1933, 3,190 bales; 1934, 16,027 bales; 1935, 18,160 bales

Remarks: Founded November 1918 by Chinese, with capital totaling 2,421,900 yuan.

Name of plant: Heng-yuan Spinning and Weaving Company 恒源紡織公司

Location of plant: Tientsin, Hopeh-hsi-yao-chien-k'ou

Date established: December 1935

Capital: Investment capital, 4 million yuan

Organization: Joint-stock company

Installations: Spinning machines, 5,300 spindles; looms, 400

No of workers: --

Basic raw materials: Raw cotton. Consumes 89,973 piculs per year

Annual production: Cotton yarn -- 1933, 22,123 bales; 1934 and 1935, no production

Remarks: In December 1935, this company had a capital of 4 million yuan; at this time, it came under the management of the Ch'eng-fu Trustee Company, which was organized by the following four banks, the Chin-ch'eng, Yen-yeh, Chung-kuo, and Chung-nan. It has been in operation since January 1936. Trade names -- Ts'ai'lan'hu, Pa-hsien, P'ao-ch'e, San'yeh

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Name of plant: Pei-yang Cotton Mills 北洋紡廠
 Location of plant: Tientsin, Kua-chia-shih
 Date established: March 1934
 Capital: 3,700,000 yuan
 Organization: Joint-stock company
 Installations: Spinning machines, 26,700 spindles
 No of workers: 700
 Basic raw materials: Raw cotton. Consumes 73,281 piculs per year
 Annual production: Cotton yarn -- 1933, 16,904 bales; 1934, 20,121 bales; 1935, 18,120 bales
 Remarks: Founded September 1921. Since March 1934, the company has operated under the Pei-yang Cotton Mills. In June 1936 the management changed to the Ch'eng-fu Trustee Company. Trademarks -- San-kuang, San-chi, San-ting

Name of plant: Ta-sheng Yarn Mill 達生製線廠
 Location of plant: Tientsin, British Concession, 19th Street
 Date established: February 1932
 Capital: 300,000 yuan
 Organization: Private
 Installations: Spinning machines, 4,000 spindles; twisting machines, 1,914 spindles; electric motors, 150 kilowatts
 No of workers: 148
 Basic raw materials: --
 Annual production: Cotton yarn -- 1934, 840 bales
 Remarks: Trademark -- Liu-sheng

Name of plant: T'ang-shan Hua-hsin Spinning and Weaving Company
 Location of plant: Hopeh, T'ang-shan 唐山華新紡織公司
 Date established: July 1922
 Capital: 2,187,400 yuan
 Organization: Joint-stock company
 Installations: Spinning machines, 6,800 spindles; twisting machines, 1,200 spindles; looms, 500; electric motors, 1,250 horsepower

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No of workers: 2,015

Basic raw materials: Raw cotton. Consumes 66,745 piculs per year

Annual production: Cotton yarn, 19,302 bales; cotton cloth, 7,786,720 square yards

Remarks: Trademarks -- (cotton yarn) San-sung, Chi-ch'ing, San-yu;
(cotton cloth) San-yen, Ch'ang-sheng, Wan-hsi, Teng-peiName of plant: Ta-hsing Spinning and Weaving Company大興紡織
公司

Location of plant: Hopeh, Shih-chia-chuang

Date established: August 1922

Capital: 2,100,000 taels

Organization: Joint-stock company

Installations: Spinning machines, 29,834 spindles; looms, 498; electric motors, 1,500 kilowatts

No of workers: --

Basic raw materials: Raw cotton. Consumes 12,547 piculs per year

Annual production: Cotton yarn, 32,546 bales; cotton cloth, 2,429,840 square yards

Remarks: Trademarks -- Shuang-fu, Huo-lu, Ta-chi, Shan-lu

Name of plant: Pao-chi Cotton Mills

寶記紡廠

Location of plant: Hopeh, Pao-ti Hsien, Hsin-chi-chen

Date established: --

Capital: 150,000 yuan

Organization: --

Installations: Spinning machines, 13,480 spindles; steam engines, 800 horsepower

No of workers: --

Basic raw materials: --

Annual production: --

Remarks: Trademark -- Pao-ping

Name of plant: Naigai Cotton Mills (Japanese-owned)

内外紗廠

Location of plant: Tsingtao, Ssu-fang

Date established: July 1916

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Capital: 32 million yen; paid-up capital, 24 million yen

Organization: Joint-stock company

Installations: Spinning machines, 90,400 spindles; twisting machines, 5,600 spindles; electric motors, 8,750 kilowatts

No of workers: 3,750

Basic raw materials: Raw cotton. Consumes 266,000 piculs per year

Annual production: Cotton yarn, 72,570 bales

Remarks: Trademark -- Yin-yueh

Name of plant: Fuji Cotton Mills (Japanese-owned) 富士紗廠

Location of plant: Tsingtao, Ts'ang-k'ou

Date established: October 1921

Capital: 45,500,000 yen; paid-up capital, 2,500,000 yen

Organization: Joint-stock company

Installations: Spinning equipment, 31,360 spindles; twisting machines, 1,600 spindles; looms, 450; electric motors, 1,500 kilowatts; steam engines, 3,200 horsepower

No of workers: 1,559

Basic raw materials: Raw cotton. Consumes 80,755 piculs per year

Annual production: Cotton yarn, 12,787 bales; cotton cloth, 12,836,800 square yards

Remarks: Trademarks -- (cotton thread) Wu-ts'ai-hsing; (cotton cloth) Wu-hsing

Name of plant: Kung-ta No 5 Mill (Japanese-owned) 公大第五廠

Location of plant: Tsingtao, Ts'ang-k'ou

Date established: April 1923

Capital: 15 million yuan; paid-up capital, 15 million yuan

Organization: Joint-stock company

Installations: Spinning machines, 138,672 spindles; twisting machines, 9,240 spindles; looms, 4,250; electric motors, 7,500 kilowatts

No of workers: 5,195

Basic raw materials: Raw cotton. Consumes 209,395 piculs per year

Annual production: Cotton yarn, 17,202 bales; cotton cloth, 65,750,000 square yards

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Remarks: Trademarks -- (cotton yarn) Hua-tieh; (cotton cloth) Shuang-fei-lung

Name of plant: Lung-hsing Cotton Mills (Japanese-owned) 隆興紗廠

Location of plant: Tsingtao, Ssu-fang

Date established: April 1922

Capital: 27 million yuan; paid-up capital, 19,750,000 yuan

Organization: Joint-stock company

Installations: Spinning machines, 42,660 spindles; twisting machines, 1,200 spindles; 520 looms; electric motors, 1,400 kilowatts

No of workers: 1,524

Basic raw materials: Raw cotton. Consumes 41,588 piculs per year

Annual production: Cotton yarn, 28,716 bales

Remarks: Trademarks -- (cotton yarn) Pao-ch'uan; (cotton cloth) T'ao-yin

Name of plant: Pao-lai Cotton Mills (Japanese-owned) 寶來紗廠

Location of plant: Tsingtao, Ts'ang-k'ou

Date established: April 1923

Capital: 10 million yuan; paid-up capital, 6,535,000 yuan

Organization: Joint-stock company

Installations: Spinning machines 40,768 spindles; twisting machines, 2,816 spindles; electric power, 3,800 kilowatts; steam 500 horsepower

No of workers: 1,500

Basic raw materials: Raw cotton. Consumes 73,500 piculs per year

Annual production: Cotton yarn, 31,000 bales

Remarks: Trademarks -- Pao-lai, Lung-shen, Lung-kung, Mitsugai

Name of plant: Ta-k'ang Cotton Mills (Japanese-owned) 大康紗廠

Location of plant: Tsingtao, Ssu-fang

Date established: October 1921

Capital: 52 million yuan; paid-up capital, 52 million yuan

Organization: Joint-stock company

Installations: Spinning machines, 102,192 spindles; twisting machines, 4,800 spindles; looms, 2,860; electric motors, 5,000 kilowatts

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No of workers: 5,550

Basic raw materials: Raw cotton. Consumes 249,599 piculs per year

Annual production: Cotton yarn, 45,000 bales; cotton cloth, 61,400,000 square yards

Remarks: Trademarks -- (cotton thread) T'ung-yu, Kung-nu, Chin-nuo;
(cotton cloth) Wu-fu-chi, Hsiang-kuang-niaoName of plant: Shanghai Cotton Mills (Japanese-owned) 上海紗廠

Location of plant: Tsingtao, Ssu-ts'ang Lu

Date established: April 1935

Capital: 12 million yuan; paid-up capital, 9 million yuan

Organization: Joint-stock company

Installations: Spinning machines, 55,448 spindles; looms, 1,440; electric motors, 1,800 kilowatts

No of workers: 1,500

Basic raw materials: --

Annual production: Cotton yarn, 10,000 bales; cotton cloth, 1,200,000 tan
[tan is a roll of cloth of about 12 yards]

Remarks: Trademark -- (cotton thread and cotton cloth) Lung-men

Name of plant: Doko Cotton Mills (Japanese-owned) 同興紗廠

Location of plant: Tsingtao, Ts'ang-k'ou

Date established: July 1935

Capital: 15 million yen; paid-up capital, 10,500,000 yen

Organization: Joint-stock company

Installations: Spinning machines, 30,720 spindles; looms, 1,152;
electric motors, 1,500 kilowatts

No of workers: 1,300

Basic raw materials: --

Annual production: --

Remarks: The plant was scheduled to begin operation by the end of 1936

Name of plant: Toyoda Cotton Mills (Japanese-owned) 豐田紗廠

Location of plant: Tsingtao, Ssu-ts'ang Lu

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Date established: April 1935

Capital: 10 million taels; paid-up capital, 5 million taels

Organization: Joint-stock company

Installations: Spinning machines 35,640 spindles; looms, 540

No of workers: 1,250

Basic raw materials: --

Annual production: Cotton yarn, 15,000 bales; cotton cloth, 462,000 tan

Remarks: Trademarks -- (cotton thread) Feng-hiao; (cotton cloth) Yen-hsi

Name of plant: Tsingtao Hua-hsin Spinning and Weaving Company

Location of plant: Tsingtao, Ts'ang-k'ou

青島華新紡織公司

Date established: January 1919

Capital: 2,700,000 yuan

Organization: Joint-stock company

Installations: Spinning machines, 47,276 spindles; twisting machines,
8,960 spindles; looms, 211; electric motors, 1,500 kilowatts

No of workers: 1,860

Basic raw materials: Raw cotton. Consumes 79,800 piculs per year

Annual production: Cotton yarn, 22,800 bales

Remarks: Trademarks -- (cotton thread) Sung-lu, Wu-tzu, Teng-k'o;
(cotton cloth) Shung-niu, Chan-ch'iao, Hsin-nienName of plant: Lu-feng Spinning and Weaving Company

魯豐紡織公司

Location of plant: Tsingtao, Ts'ang-k'ou

Date established: January 1919

Capital: 2,700,000 yuan

Organization: Joint-stock company

Installations: Spinning machines 26,016 spindles; steam engines 500
horsepower

No of workers: 1,500

Basic raw materials: Raw cotton. Consumes 80,542 piculs per year

Annual production: Cotton yarn, 23,085 bales

Remarks: Operations suspended; trademarks -- Chi-hsiang, Fu Chi-hsiang

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Name of plant: Ch'eng-t'ung Spinning and Weaving Company 成通紡織公司

Location of plant: Tsinan, Pei-shang-pu, Hsin-ho-pan

Date established: April 1933

Capital: 1,500,000 yuan

Organization: Joint-stock company

Installations: Spinning machines 30,000 spindles; electric motors, 500 kilowatts

No of workers: 718

Basic raw materials: Raw cotton. Consumes 49,852 piculs per year

Annual production: Cotton yarn, 14,000 bales

Remarks: 1933 profit, 68,969 yuan; 1934 profit, 100,542 yuan. Trade marks --
P'ing-hsien Fen-ch'e, San-1, T'ai-shan, Mu-toName of plant: Jen-feng Spinning Company 仁豐紡績公司

Location of plant: Tsinan, Shang-pu-pei

Date established: June 1934

Capital: 1,500,000 yuan

Organization: Joint-stock company

Installations: Spinning machines, 15,384 spindles; looms, 240; electric
motors, 400 kilowatts

No of workers: 520

Basic raw materials: Raw cotton. Consumes 30,024 piculs per year

Annual production: Cotton yarn, 8,584 bales

Remarks: 1934 profit, 31,000 yuan. Trademarks -- Chih-chu, Hung-chih-chu

Name of plant: Chin-hua Spinning and Weaving Company 晉華紡織公司

Location of plant: Shansi, Yu-tz'u

Date established: June 1923

Capital: 4 million yuan

Organization: Joint-stock company

Installations: Spinning machines, 39,344 spindles; twisting machines, 752
spindles; looms, 480; electric motors, 1,150 kilowatts

No of workers: 2,099

Basic raw materials: Raw cotton. Consumes 12,121 piculs per year

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Annual production: Cotton yarn, 29,617 bales

Remarks: Trademarks -- San-huan, T'ung-yeh

Name of plant: Ta-i-ch'eng Spinning and Weaving Company

大益成紡織公司

Location of plant: Shansi, Hsin-chiang

Date established: June 1927

Capital: 2,140,000 yuan

Organization: Joint-stock company

Installations: Spinning machines, 18,400 spindles; twisting machines, 130 spindles; looms, 404; electric motors, 700 kilowatts

No of workers: 1,689

Basic raw materials: Raw cotton. Consumes 54,816 piculs per year

Annual production: Cotton yarn, 14,923 bales; cotton cloth, 8,283,402 square yards

Remarks: Trademarks -- (cotton yarn) San-lin; (cotton cloth) San-feng, San-lin, San-to, Tai-kung, San-chueh-huan-lien

Name of plant: Yung-yu Spinning and Weaving Company

雍裕紡織公司

Location of plant: Shansi, Hsin-chiang

Date established: June 1931

Capital: 600,000 yuan

Organization: Joint-stock company

Installations: Spinning machines, 8,400 spindles; looms, 130; steam engines, 500 horsepower

No of workers: 850

Basic raw materials: Raw cotton. Consumes 6,596 piculs per year

Annual production: Cotton yarn, 7,436 bales; cotton cloth, 296,800 square yards

Remarks: Trademarks -- (cotton thread) Lung-ma; (cotton cloth) Lung-ma, Shuang-lung-ma; Lung-men, Chin-lung

Name of plant: Ch-ang-sheng Spinning, Weaving, and Dyeing Mills

長生紡織染工廠

Location of plant: Shansi, T'ai-yuan

Date established: May 1930

Capital: 723,500 yuan

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Organization: --

Installations: Spinning machines, 6,000 spindles; looms, 250; electric motors, 313 kilowatts

No of workers: 700

Basic raw materials: Raw cotton. Consumes 20,520 piculs per year

Annual production: Cotton yarn, 5,700 bales; cotton cloth, 560,000 square yards

Remarks: Trademarks -- (cotton yarn) T'ung-hua; (cotton cloth) San-lung, Chinting, Yu-fo, T'ung-hua, Fei-ma

Name of plant: I-chin Spinning and Dyeing Company

益晉織染公司

Location of plant: Shansi, Ch'i-hsien

Date established: August 1929

Capital: 300,000 yuan

Organization: --

Installations: Spinning machines, 10,000 spindles; looms, 200; electric motors, 208 kilowatts

No of workers: --

Basic raw materials: --

Annual production: --

Remarks: Trademarks (cotton cloth) Lung-t'ung, Lung, huai, Chiu-lien-huan, Kuo-ho, T'ung-tzu

Wool IndustryName of plant: Tung-ya Wool Spinning and Weaving Company

東亞毛呢

Location of plant: Tientsin, British Concession, Second Street

絨織公司

Date established: 1932

Capital: 600,000 yuan

Organization: Joint-stock company

Installations: Looms, 34; boilers, 2

No of workers: Men, 250; women, 200; several children

Basic raw materials: Consumes 1,200,000 pounds (40 percent Chinese and 60 percent Australian) of wool and 10,000 yuan worth of dyestuffs per year

Annual production: Wool yarn, one million pounds; miscellaneous woollen goods /amount not given/. 1935 output, 4 million yuan worth of goods; net profit, 98,000 yuan

Remarks: Trademark -- Ti-yang

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Name of plant: Hai-ching Spinning and Weaving Mill 海京紡織廠
 Location of plant: Tientsin, British Concession, 11th Street
 Date established: 1923
 Capital: 300,000 yuan
 Organization: Limited partnership
 Installations: Looms, 30; electric motors, 45
 No of workers: Staff members, 33; workers, 300
 Basic raw materials: Consumes one million pounds of wool and 20,000 yuan worth of dyestuffs per year
 Annual production: Woolen carpets, 9,000; woolen fabrics, 90,000 yards; woolen yarn, 400,000 pounds; shawls, 10,000. 1924 output, 500,000 yuan worth of goods; net profit 90,000 yuan
 Remarks: Trademark -- Hai-ch'ing

Name of plant: I-k'o Wool Mills 倪克紡毛廠
 Location of plant: Tientsin, British Concession, Hai-ta-tao
 Date established: 1925
 Capital: 100,000 yuan
 Organization: Joint-stock company
 Installations: Looms, 17
 No of workers: 1,000 men
 Basic raw materials: Wool. Consumes 1,200 bales (Chinese wool, 90 percent; Australian wool, 20 percent /sic/)
 Annual production: 17,000 square feet of carpeting per day
 Remarks: --

Name of plant: Jen-li Wool Spinning and Weaving Mills 仁立毛呢紡織公司
 Location of plant: Tientsin, British Concession, rear of British barracks
 Date established: 1931
 Capital: 500,000 yuan
 Organization: Joint-stock company
 Installations: Looms, 26; boilers, 2
 No of workers: Staff members, 22; workers, 130

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Basic raw materials: Consumes 600,000 catties of wool and 2,000 pounds of dye-stuffs per year

Annual production: Wool yarn, 3,000 pounds per day. Also carpeting and woolen cloth /amount not given/. 1924 output, 370,000 yuan worth of goods; net profit, 10,000 yuan

Remarks: Trademark -- T'ien-ma

Name of plant: Hsiang-ho Wool Mills 祥和羊毛廠

Location of plant: Tientsin, French Concession, Third Street

Date established: 1931

Capital: 300,000 yuan

Organization: Private investment

Installations: 14 looms, one boiler

No of workers: Staff members, 25; workers, 170

Basic raw materials: Wool (Australian). Consumes one million pounds per year

Annual production: Wool yarn, 750,000 pounds. Also other woolen goods /amount not given/. 1934 output, 400,000 yuan worth of goods

Remarks: Trademark -- Fei-chi

Name of plant: Mei-ku-shen Company, Tientsin Branch (US-owned) 美古紳洋行天津分行

Location of plant: Tientsin, French Concession, Eighth Street (main office, New York)

Date established: 1920

Capital: One million yuan

Organization: Limited partnership

Installations: Looms, 30

No of workers: Staff members, 28; workers, 300

Basic raw materials: Wool is obtained locally; dyestuffs are imported from foreign countries /amount not given/

Annual production: 1935 output, 600,000 yuan worth of goods; net profit, 10,000 yuan

Remarks: Yarn and carpeting manufacture

Name of plant: Ching-to Company's Rug Factory 井澤洋行絨氈廠

Location of plant: Tientsin, Japanese Concession, Fushimi Gai

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Date established: 1928
 Capital: 50,000 yuan
 Organizations: Private investment
 Installations: Looms, 155
 No of workers: Staff members, 3; workers, 143
 Basic raw materials: --
 Annual production: --
 Remarks: Carpeting manufacture

Name of plant: Ching-ho-chen Army Woolen Products Mill 清河鎮陸軍
 Location of plant: Peiping, Ch'ing-ho-chen 織呢廠
 Date established: 1929

Capital: --
 Organization: Japanese government-owned
 Installations: Spinning machines, 5,000 spindles; looms, 58; threaders, 5; dyeing machines, 5; driers, 3; steam engines, 1,000 horsepower
 No of workers: 1,000
 Basic raw materials: Wool is obtained from Kalgon, dyestuffs are imported from Germany, and coal is obtained from K'ai-luan
 Annual production: Wool cloth, 4,500 pounds; light felt, 500 yards; heavy felt 1,200 yards (daily production figures)
 Remarks: --

Name of plant: Northwest Industrial Company's Wool Weaving Mill

Location of plant: T'ai-yuan, Pei-men-wai 西北實業公司毛織廠
 Date established: October 1934
 Capital: 450,000 yuan
 Organization: Province-owned
 Installations: --
 No of workers: Staff members, 40; men workers, 34; women workers, 22
 Basic raw materials: Obtains wool produced in the Shou-yang, Yu-tz'u, and Chiao-cheng areas
 Annual production: Serge, 5,490 bolts; dress suit fabric, 660 bolts; camel's hair fabric, 6,270 bolts; blankets, 12,540
 Remarks: Trademarks -- (shirts) T'uan-chieh, (yarn) Kuang-hua, (wool cloth) Fei-tung, (gloves and socks) P'ing-teng

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Name of plant: Sui-yuan Wool Mills 綦遠毛織廠
 Location of plant: Sui-yuan
 Date established: March 1935
 Capital: 400,000 yuan
 Organization: Joint investment by government and private individuals
 Installations: Looms, 6; wool cloth looms, 2; wool cloth weaver, one;
 steam engines, 40 horsepower
 No of workers: Staff members, 15; workers, 120
 Basic raw materials: Wool. Consumes 200,000 catties per year
 Annual production: Wool fabric, 2,000 yards; yarn, 500 pounds; blankets, 7
 (daily production figures)
 Remarks: Trademark -- Fai-yang. Capital consists of 200,000 shares of stock,
 of which 30,000 shares are held by the Hai-ching Company in Tientsin

Silk Industry

Name of plant: Ch'ang-sheng Silk Mills 長盛絲織廠
 Location of plant: Chefoo, Hsi-sha-wang Chieh
 Date established: 1934
 Capital: 30,000 yuan
 Organization: --
 Installations: --
 No of workers: Staff members, 5; workers, 100
 Basic raw materials: --
 Annual production: Silk gauze, 10,000 bolts (500,000 yuan)
 Remarks: 1934 losses, 500 yuan

Name of plant: Hui-ch'ang-t'ai Silk Mills 榮昌泰絲織廠
 Location of plant: Chefoo, Hsi-sheng Chieh
 Date established: 1931
 Capital: 7,000 yuan
 Organization: --
 Installations: --
 No of workers: Staff members, 8; workers, 55 men and 44 women
 Basic raw materials: --

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STAT

Annual production: Silk gauze, 3,000 bolts

Remarks: 1932 net profit, 300 yuan; 1933 net profit, 200 yuan; 1934 net profit, 200 yuan

Name of plant: I-hsing-heng Silk Mills

益興恒絲織廠

Location of plant: Shantung, Chou-ts'un

Date established: 1932

Capital: 30,000 yuan

Organization: --

Installations: --

No of workers: Staff members, 8; workers, 26

Basic raw materials: --

Annual production: --

Remarks: 1932 losses, 2,800 yuan; 1933 losses, 2,800 yuan; 1934 losses, 4,200 yuan

Name of plant: Tsingtao Silk Mills

青島絲廠

Location of plant: Tsingtao, Liao-ning Lu

Date established: 1918

Capital: 250,000 yuan

Organization: --

Installations: --

No of workers: Men, 210; women, 230

Basic raw materials: --

Annual production: --

Remarks: Silk yarn manufacture

PART II. METALWORKING INDUSTRY

Steel IndustryName of plant: Shih-ching-shan Iron Mill

石景山製鐵所

Location of plant: Peiping, Shih-ching-shan

Date established: 1925

Capital: --

Organization: Joint-stock company

Installations: Furnace, 250-ton capacity; generator, 1,250 kilowatts; water reservior

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No of workers: --

Basic raw materials: Obtains iron ore from Lung-yen, T'ieh-shan, and Yen-t'ung-shan; coke from Liu-ho-kou coal mines in Honan; manganese ore from Hunan

Annual production: Pig iron, 90,000 tons (plan)

Remarks: Construction of plant started in 1919, and was completed in 1925. It was not in operation in 1937 because of unfavorable iron market

Name of plant: Northwest Industrial Company's Steel Mill西北實業公司
煉鋼廠

Location of plant: Shansi, T'ai-yuan, Ku-ch'eng Ts'un

Date established: Under construction

Capital: 5 million yuan

Organization: Province-owned

Installations: --

No of workers: --

Basic raw materials: --

Annual production: Planned daily production, 240 tons of steel

Remarks: --

Name of plant: Pao-chin Iron Mill

保晉鉄廠

Location of plant: Shansi, Yang-ch'uan

Date established: --

Capital: 700,000 yuan

Organization: --

Installations: One smelting furnace

No of workers: --

Basic raw materials: --

Annual production: Production capacity -- 15 tons of pig iron and 2 tons of cast iron per day, or approximately 3,000 tons of pig iron per year.

Remarks: --

Machinery IndustryName of plant: Tung-fang Ironworks (British-owned)

東方鉄廠

Location of plant: Tientsin, British Concession, London Street

Date established: --

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STAT

Capital: 50,000 yuan
 Organization: Limited partnership
 Installations: 2 lathes, 2 milling machines, 2 reverberatory furnaces, two 5-horsepower motors
 No of workers: Staff members, 7; workers, 80
 Basic raw materials: Iron is supplied by the main office in Shanghai
 Annual production: 200,000 yuan worth of new machinery and repairs of old machinery
 Remarks: Manufacture and repair of machinery manufacture and repair of boilers for steam-heating systems; shipbuilding works

Name of plant: I-li-kang-t'ung Electrical Works (Italian-owned)

義利鋼桶電機製造廠

Location of plant: Tientsin, Italian Concession, Ho-yen Nan-hsi-ma Lu

Date established: 1927

Capital: 30,000 yuan

Organization: Private investment

Installations: 3 milling machines, 6 lathes, 3 drills, 7 motors (total of 46 horsepower)

No of workers: Staff members, 7; workers, 50

Basic raw materials: --

Annual production: --

Remarks: Electric welding manufacture and repair of electrical machinery

Name of plant: Ying-mei Equipment Works (Anglo-American-owned)

英美機器廠

Location of plant: Tientsin, French Concession, Second Street

Date established: 1934

Capital: 50,000 yuan

Organization: Limited partnership

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Installations: 3 lathes, one Schick lathe, 2 drills, one 70-horsepower
one furnace

No of workers: Staff members, 7; workers, 50

Basic raw materials: --

Annual production: 200,000 yuan worth of new machinery and repairs of old
machinery

Remarks: Manufacture and repair of miscellaneous machinery

Name of plant: Mitsui Ironworks (Japanese-owned) 三井鐵工廠

Location of plant: Tientsin, Third Special District

Date established: 1907

Capital: 30,000

Organization: Private investment

Installations: 3 lathes, 2 punching machines

No of workers: 20

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of ship machinery and mining machinery

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Name of plant: Heng-ta Ironworks 恒太鐵工廠
 Location of plant: Tientsin, Hopeh-ta-chieh
 Date established: 1909
 Capital: 100,000 yuan
 Organization: Limited partnership
 Installations: 5 lathes, 3 drills, one compressor, one electric emery wheel, 18 vises, one 5-horsepower motor, one furnace
 No of workers: 50
 Basic raw materials: Consumes 30,000 catties of pig iron imported annually from Manchuria and 15,000 catties of cast iron imported annually from Britain and the US
 Annual production: 1932 output, 150,000 yuan worth of goods; profits, 1,000 yuan
 Remarks: Manufacture and repair of mining machinery and various other types of machinery

Name of plant: Te-li-hsing Machine Tool Works 德利興機器廠
 Location of plant: Tientsin, Ho-peh-san-t'iao-shih
 Date established: April 1924
 Capital: 10,000 yuan
 Organization: Private investment
 Installations: --
 No of workers: Staff members, 5; workers, 100
 Basic raw materials: Consumes 160 tons of pig iron, 400 tons of cast iron, and 1,200 pounds of steel per year
 Annual production: 1932, 14 lathes and 12 printing machines
 Remarks: 1932 profits, 2,000 yuan

Name of plant: Sheng-ch'ang Chung'chi Company's Ironworks 昇昌忠記行鐵工廠
 Location of plant: Peiping, Teng-shih-k'ou
 Date established: --
 Capital: 176,000 yuan
 Organization: Limited partnership
 Installations: Machinery consists of one 10-horsepower motor and several lathes, air compressors, vises, etc.

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No of workers: 100

Basic raw materials: Iron and brass. Imported from Britian and the US

Annual production: 50,000 yuan worth of various machinery and machinery parts

Remarks: Manufactures miscellaneous machinery, steam-heating systems, and plumbing equipment; repairs automobiles and manufactures automobile parts

Name of plant: Yung-tseng Machine Tool Works永增機器製造
工廠

Location of plant: Peiping, Man-hsia-wa

Date established: 1909

Capital: 250,000 yuan

Organization: --

Installations: One gas generator, two 20-horsepower Diesel engines, one generator (25 kilowatts, 30 lathes, 68 pieces of miscellaneous machinery

No of workers: 225

Basic raw materials: --

Annual production: 200,000 yuan worth of new engines, boilers, and other machinery

Remarks: Manufacture and repair of engines, boilers, and other machinery.

Name of plant: Ts'ui-chi Ironworks

崔記鐵工廠

Location of plant: Peiping

Date established: --

Capital: 250,000 yuan

Organization: --

Installations: --

No of workers: 26

Basic raw materials: --

Annual production: 14,000 yuan worth of new Diesel engines, machinery, and repairs of machinery

Remarks: Manufacture and repair of Diesel engines and other types of machinery

Name of plant: Chung-hua Ch'i-lu Hang

中華汽爐行

Location of plant: Peiping

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Date established: ---

Capital: 30,000 yuan

Organizations: --

Installations: --

No of workers: 86

Basic raw materials: --

Annual production: 40,000 yuan worth of iron castings and various machinery

Remarks: Manufacture of iron castings; manufacture and repair of various machinery

Name of plant: Hai-ching Machine Works

海京機器工廠

Location of plant: Peiping

Date established: --

Capital: 150,000 yuan

Organization: --

Installations: --

No of workers: 118

Basic raw materials: --

Annual production: 50,000 yuan worth of iron castings and various machinery

Remarks: Manufacture of iron castings; manufacture and repair of various machinery

Name of plant: Umezawa Company's Ironworks (Japanese-owned)

梅澤商會鐵工所

Location of plant: Tsingtao, Liao-ning Lu

Date established: October 1917

Capital: 20,000 yen

Organization: Private investment

Installations: One 10-horsepower motor

No of workers: --

Basic raw materials: --

Annual production: 150,000 yuan worth of various machinery

Remarks: Manufacture and repair of various types of machinery

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Name of plant: Chiao-tung Ironworks (Japanese-owned) 膠東鐵工所
 Location of plant: Tsingtao, Kuan-hsien Lu
 Date established: July 1933
 Capital: 30,000 yen
 Organization: Limited partnership
 Installations: 2 motors
 No of workers: 60
 Basic raw materials: --
 Annual production: --
 Remarks: Founded 1922, reorganized July 1933. Manufacture and repair of textile machinery and various other types of machinery

Name of plant: Ho-shun-ch'eng Ironworks 合順成鐵工廠
 Location of plant: Tsingtao, Fei-hsien Lu
 Date established: 1911
 Capital: 10,000 yuan
 Organizations: Limited partnership
 Installations: 3 lathes, one 2-horsepower motor
 No of workers: --
 Basic raw materials: --
 Annual production: --
 Remarks: --

Name of plant: Te-shun-lu Ironworks 德順爐鐵工廠
 Location of plant: Tsingtao, Liao-nin, Lu
 Date established: 1919
 Capital: 24,000 yuan
 Organization: Private investment
 Installations: 9 lathes, one 10-horsepower motor
 No of workers: 26
 Basic raw materials: Consumes 2,000 catties of copper and 40 tons of iron per year

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Annual production: --

Remarks: Manufactures and repairs machinery for match-manufacturing and oil-extracting industries

Name of plant: Li-sheng Ironworks

利生鐵工廠

Location of plant: Tsingtao, Kuang-hsi Lu

Date established: --

Capital: 30,000 yuan

Organization: Private Investment

Installations: 15 lathes, 4 motors (total 21 horsepower), 8 miscellaneous pieces of machinery, 2 furnaces

No of workers: 35

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of machinery

Name of plant: Fu-chi Ironworks

復記鐵工廠

Location of plant: Tsingtao, Chu-yeh Lu

Date established: 1919

Capital: 10,000 yuan

Organization: Private investment

Installations: 6 lathes, 20 miscellaneous pieces of machinery, one 75-horsepower motor

No of workers: 40

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of machinery

Name of plant: Tanaka Ironworks (Japanese-owned)

田中鐵工所

Location of plant: Tsingtao, Pin-hsien Lu

Date established: --

Capital: 20,000 yen

Organization: --

Installations: --

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No of workers: 38

Basic raw materials: --

Annual production: --

Remarks: --

Name of plant: Tung-i Ironworks

東益鐵工廠

Location of plant: Tsingtao, Kansu Lu

Date established: August 1935

Capital: 20,000 yuan

Organization: Limited partnership

Installations: 10 lathes, 20 miscellaneous pieces of machinery, 2 motors (total
22 horsepower, 2 furnaces)

No of workers: 40

Basic raw materials: --

Annual production: 40,000 yuan worth of lathes and other machinery

Remarks: Started operations on Ningpo Lu in 1919, suffered a fire about 1934,
and moved to its present location in 1935.Name of plant: Chin-ch'eng Ironworks

金城鐵工廠

Location of plant: Tsingtao, Liao-ning Lu

Date established: June 1932

Capital: 10,000 yuan

Organization: Limited partnership

Installations: 2 lathes, 5 miscellaneous pieces of machinery, one motor, one
furnace

No of workers: 13

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of various types of machinery; electro-
platingName of plant: Kai Ironworks (Japanese-owned)

甲斐鐵工所

Location of plant: Tsingtao, T'ai-shan Lu

Date established: 1921

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STAT

Capital: --

Organization: --

Installations: --

No of workers: --

Basic raw materials: --

Annual production: 100,000 yuan worth of new textile machinery and repairs of old textile machinery

Remarks: Manufacture and repair of textile machinery, and other types of machinery

Name of plant: Matsuyama Ironworks (Japanese-owned) 松山鉄工所

Location of plant: Tsingtao, Liao-ning Lu

Date established: 1929

Capital: --

Organization: --

Installations: --

No of workers: 13

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of boilers and heating apparatus

Name of plant: Harada Ironworks (Japanese-owned) 原田鉄工所

Location of plant: Tsingtao, Liao-ning Lu

Date established: 1918

Capital: --

Organization: --

Installations: --

No of workers: 31

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of oil-extracting machinery and other types of machinery

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Name of plant: Ichikawa Ironworks (Japanese-owned) 市河鉄工所
 Location of plant: Tsingtao, Kuan-hsien Lu
 Date established: October 1932
 Capital: --
 Organization: Private investment
 Installations: --
 No of workers: --
 Basic raw materials: --
 Annual production: --
 Remarks: --

Name of plant: Shova Ironworks 昭和鉄工所
 Location of plant: Tsingtao, Po-hsing Lu
 Date established: 1927
 Capital: --
 Organization: --
 Installations: --
 No. of workers: 14
 Basic raw materials: --
 Annual production: --
 Remarks: Manufacture and repair of textile machinery

Name of plant: Suzuki Ironworks 鈴木鉄工所
 Location of plant: Tsingtao, Kuan-hsien Lu
 Date established: 1929
 Capital: --
 Organizations: --
 Installations: --
 No of workers: 8.
 Basic raw materials: --
 Annual production: --
 Remarks: Manufacture and repair of boilers and other types of machinery

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Name of plant: Lu-ta Ironworks

隆大鐵工廠

Location of plant: Chi-nan, Ching-san Lu

Date established: March 1924

Capital: 20,000 yuan

Organization: Private investment

Installations: 5 lathes, 4 presses

No of workers: 160

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of various types of machinery. 1932 profits, 3,300 yuan; 1933 losses, 37,000 yuan; 1934 profits, 10,000 yuan

Name of plant: Hua-Feng Ironworks

華豐鐵工廠

Location of plant: Shantung, Wei Hsien

Date established: January 1920

Capital: 120,000 yuan

Organization: Joint-stock company

Installations: 9 lathes, 9 drills, one generator (240 kilowatts)

No of workers: Staff members, 10; workers, 270

Basic raw materials: Iron and steel obtained from Tsingtao and Dairen

Annual production: Diesel engines, looms, pumps -- 1,142 units yearly

Remarks: --

Name of plant: T'ien-feng Ironworks

天豐鐵工廠

Location of plant: Shantung, Wei Hsien

Date established: 1926

Capital: 30,000 yuan

Organization: --

Installations: One 15-horsepower motor

No of workers: 25

Basic raw materials: --

Annual production: 500 looms

Remarks: 1932 profits, 1,000 yuan, 1933 losses, 1,200 yuan, 1934 losses, 1,500 yuan

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Name of plant: Northwest Industrial Company's Yu-ts'ai Steel Mill and Machine-Building Plant

育才鍊鋼機器廠

Location of plant: T'ai-yuan, Pei-men-wai

Date established: September 1926

Capital: 247,000 yuan

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members 50; workers, 300

Basic raw materials: --

Annual production: Two flour-making machines, one loom, 300 3-horsepower diesel engines, 100 8-horsepower diesel engines, 500 grinders, 800 hand looms, 100 wool looms, 700 brick-making machines

Remarks: --

Name of plant: Northwest Industrial Company's Machine-Building Plant

Location of plant: T'ai-yuan, Hsiao-tung-men-wai 西北實業公司

Date established: 1920

機器廠

Capital: --

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members, 18; workers, 257

Basic raw materials: --

Annual production: 120 gas lamps, 100 various types of lathes, 60 various types of milling machines, 55 various types of shaping machines, 200 bookbinders. Total annual output amounts to about 23,000 yuan worth of goods

Remarks: Trademark -- Hsi-pei

Name of plant: Northwest Industrial Company's Locomotive Works

Location of plant: T'ai-yuan, Pei-men-wai 西北實業公司

Date established: 1928

機車廠

Capital: --

Organization: Owned by Shansi Province

Installations: --

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No of workers: Staff members, 56; workers, 650

Basic raw materials: --

Annual production: 36 steam locomotives, 926 pieces of bridging materials,
 9 water wheels, 39 units of locomotive safety devices and generators,
 3 track inspection cars, 4 cranes, 7 ore-hopper cars, 63 freight car
 chassis, 2 steam locomotive boilers, and repair of 116 freight cars

Remarks: --

Name of plant: Northwest Industrial Company's Foundry

Location of plant: T'ai-yuan, Pei-men-wai

西北實業公司
鑄造廠

Date established: --

Capital: --

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members, 52; workers, 350

Basic raw materials: --

Annual production: --

Remarks: Manufactures machinery, suction pumps, blowers, safes, portable
 cooking stoves, etc.

Name of plant: Northwest Industrial Company's Hydraulic Machine Works

Location of plant: T'ai-yuan, Pei-men-wai

西北實業公司
水壓機廠

Date established: 1923

Capital: --

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members, 16; workers, 76

Basic raw materials: --

Annual production: 640 hydraulic machines, 16-inch fans, 300 one-horsepower
 electric motors, 300 5-horsepower electric motors, 666 tons of nails,
 333 tons of screws. Total output 420,000 yuan worth of goods

Remarks: --

Name of plant: Northwest Industrial Company's Automotive Works

Location of plant: T'ai-yuan, Hsiao-tung-men-nei

西北實業公司
汽車修理廠

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Date established: April 1932

Capital: --

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members, 34; workers, 450

Basic raw materials: --

Annual production: 52 automobiles repaired, 2 small locomotives, 10 charcoal converter furnaces, ten 12-horsepower gas engines, thirty-two 12-horsepower gas engines with Washington-type pumps, 2 jinrikshas, 4 bellows, 12 hand pumps, 40 flatcars, 4 well pumps, 12 rock crushers. Total output, excluding automotive repairs, about 80,000 yuan worth of goods

Remarks: 1935 profits, 16,000 yuan

Metal Products IndustryName of plant: Taihei Yoko Electric Wire Plant (Japanese-owned)大平洋行
電線工場

Location of plant: Tientsin, Japanese Concession, Fushimi Gai

Date established: 1921

Capital: 50,000 yuan

Organization: Private investment

Installations: one roller press, one calender, one assembly machine, 50 thread machines, one dual twister, one extruder (six lines), 1 boiler (100 pounds), and 4 motors (total 22 horsepower)

No of workers: 20

Basic raw materials: Rubber, paint, copper wire, etc., most items imported from Japan

Annual production: Various types of electrical wires -- monthly output capacity 600,000 feet, average monthly production, 300,000 feet

Remarks: Trademarks -- Hei, Ku, Ki

Name of plant: Ho-chi Nail Factory

和濟製釘廠

Location of plant: Tientsin, T'e-pieh-san-ch'u, Ta-ma Lu

Date established: May 1931

Capital: 10,000 yuan

Organization: Limited partnership

Installations: 25 nail-making machines

No of workers: Staff members, 12

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Basic raw materials: Iron wire. Consumes 250 tons per year
 Annual production: 1933, 24,000 kegs; 1934, 28,000 kegs; 1935, 34,000 kegs
 Remarks: 1933 losses, 3,000 yuan; 1934 profits, 1,000 yuan; 1935 profits, 5,000 yuan

Name of plant: Yu-yeh Needle Factory

裕業製釘工廠

Location of plant: Tientsin, Hou-chia-hou Hsin-ho

Date established: 1935

Capital: 15,000 yuan

Organization: Private investment

Installations: 40 needle-making machines

No of workers: Staff members, 22; workers, 75

Basic raw materials: Steel wire imported from Japan and Britian. Consumes 40 tons per year

Annual production: 800,000 dozens of sewing needles

Remarks: 1935 losses, 10,000 yuan; trademarks -- Kuo-chia, Yu-kuo-p'ai

Name of plants: Hua-hsin Nail Factory (Japanese-owned)

華新洋釘工廠

Location of plant: Tsingtao, T'ai-tung-chen

Date established: September 1931

Capital: 10,000 yuan

Organizations: Private investment

Installations: 22 nail-making machines, 2 electric motors

No of workers: 16

Basic raw materials: --

Annual production: Monthly output capacity -- 1,600 kegs (100 catties per keg of nails)

Remarks: --

Name of plant: Jih-hsin Nail Factory (Japanese-owned)

日新洋釘工廠

Location of plant: Tsingtao, T'ai-tung-chen

Date established: April 1931

Capital: 15,000 yuan

Organization: Limited partnership

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Installations: 10 extruding machines, 20 nail-making machines, 4 electric motors

No of workers: 28

Basic raw materials: --

Annual production: Monthly output -- 60 tons of nails

Remarks: --

Name of plant: Te-t'ai Industrial Plant

德泰實業工廠

Location of plant: Tsingtao, Li-ching Lu

Date established: 1932

Capital: 80,000 yuan

Organization: Limited partnership

Installations: 13 nail-making machines, 16 extruders, 5 electric motors (total 300 horsepower), 2 furnaces

No of workers: 30

Basic raw materials: --

Annual production: --

Remarks: --

Name of plant: Chi-lu Needle Factory

冀魯製針工廠

Location of plant: Tsingtao, Li-ching Lu

Date established: August 1931

Capital: 50,000 yuan

Organization: Limited partnership

Installations: 6 cutters, 50 other machines, 6 electric motors (total 73 horsepower)

No of workers: 22

Basic raw materials: --

Annual production: Monthly output -- sewing needles, 400 boxes (250,000 needles per box)

Remarks: --

Name of plant: Chung-hua Needle Factory

中華製針工廠

Location of plant: Tsingtao, Kuan-hsien Lu

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Date established: June 1929
 Capital: 23,000 yuan
 Organization: --
 Installations: 55 types of needle-making machines: 3 electric motors
 No of workers: 80
 Basic raw materials: --
 Annual production: Monthly output -- 100 boxes (250,000 needles per box) of sewing needles
 Remarks: --

Name of plant: Hua-feng Needle Factory

華豐針廠

Location of plant: Tsinan, Nan-kuan-wei Lung-feng Chieh

Date established: 1922

Capital: 50,000 yuan

Organization: Limited partnership

Installations: 3 cutters, 45 other machines

No of workers: 84

Basic raw materials: --

Annual production: Monthly output -- 40 boxes of sewing needles

Remarks: --

Name of plant: T'ien-k'uei Nail Factory

天魁製針廠

Location of plant: Chefoo, Te-ch'un-hsiang

Date established: January 1934

Capital: 50,000 yuan

Organization: --

Installations: --

No of workers: Staff members, 7; workers, 20

Basic raw materials: --

Annual production: 440,000 catties of nails

Remarks: --

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Name of plant: Chung-tung Nail Factory

中東製釘廠

Location of plant: Chefoo, Pei-ma Lu

Date established: July 1933

Capital: 52,000 yuan

Organization: --

Installations: --

No of workers: Staff members, 4; workers, 20

Basic raw materials: --

Annual production: 2,000 boxes of nails

Remarks: 1933 losses, 5,000 yuan

Name of plant: T'ien-hsing Ironworks

天興製鐵工廠

Location of plant: Tientsin, Italian Concession, Ho-yen-ma Lu

Date established: April 1931

Capital: 100,000 yuan

Organization: Limited partnership

Installations: One blast furnace, 8 shearing machines

No of workers: Staff members, 14; workers, 28

Basic raw materials: Scrap iron. Bought locally from British merchants

Annual production: Daily output -- iron plate and iron wire, 17 tons

Remarks: 1934 profits, 10,000 yuan; 1935 profits, 70,000 yuan

Name of plant: Chin-lu Ironworks

晉魯製鐵工廠

Location of plant: Shantung, Wei Hsien

Date established: 1921

Capital: 30,000 yuan

Organization: --

Installations: --

No of workers: 30

Basic raw materials: Iron and steel obtained from Tsingtao and Dairen

Annual production: 30,000 yuan worth of various metal products

Remarks: --

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Name of plant: T'ung-sheng Ironworks 同盛鐵工廠
 Location of plant: Shantung, Wei Hsien
 Date established: 1921
 Capital: 30,000 yuan
 Organization: ---
 Installations: ---
 No of workers: 30
 Basic raw materials: Iron and steel obtained from Tsingtao and Dairen
 Annual production: 30,000 yuan worth of various metal products
 Remarks: --

Name of plant: San-ho-ch'eng Factory 三合成工廠
 Location of plant: Tientsin, Hopei-san-t'iao-shih
 Date established: 1912
 Capital: 20,000 yuan
 Organization: Private investment
 Installations: Various types of machinery
 No of workers: Staff members, 2, workers, 100
 Basic raw materials: --
 Annual production: 500,000 yuan worth of metal flashlights
 Remarks: 1932 profits, 15,000 yuan, 1933 profits, 20,000 yuan; 1934 profits, 24,000 yuan

Name of plant: Ming-ch'uan Scale Manufacturing Plant and Ironworks 明權製磅鐵工廠
 Location of plant: Tientsin, Third Special District, Ta-wang-chuang
 Date established: 1932
 Capital: 150,000
 Organization: Limited partnership
 Installations: 14 machine tools, one generator (800 horsepower)
 No of workers: 105
 Basic raw materials: Various types of iron and steel produced in Shansi and in Britain

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Annual production: --

Remarks: Trademark -- Ming-ch'uan Chih-pang Kung-ch'ang; various types of scales manufactured

Name of plant: Northwest Industrial Company's Agricultural Implement Plant

Location of plant: T'ai-yuan, Pei-men-wai

Date established: 1924

Capital: --

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members, 24; workers, 336

Basic raw materials: --

Annual production: 8,000 boxes of nails, 15,000 sets of buttonhole cutters, 700 drafting sets, 600 dividers, 200 rulers, 50 balances, 200 scales, 100 suction pumps, 10 waterwheels, 10,000 locks. Total output, 100,000 yuan worth of goods.

Remarks: Trademark -- Shuang-lun-p'ai

Name of plant: Northwest Industrial Company's Ironworks

Location of plant: T'ai-yuan, Pei-men-wai

Date established: ---

Capital: --

Organization: Owned by Shansi Province

Installations: --

No of workers: Staff members, 35; workers, 58

Basic raw materials: --

Annual production: 2,126 sickles, 3,145 drills, 500 meters of well piping

Remarks: --

Name of plant: T'ung-t'ai Bicycle Factory

Location of plant: Tsingtao, Hua-yang Lu

Date established: June 1931

Capital: 20,000 yuan

Organization: Private investment

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Installations: 5 lathes, 21 miscellaneous pieces of machinery, 6 motors
(total 80 horsepower), 2 forges, one boiler

No of workers: 84

Basic raw materials: --

Annual production: --

Remarks: --

Name of plant: Nichirin Company (Japanese-owned) 日輪公司

Location of plant: Tsingtao, Liao-ning Lu

Date established: February 1915

Capital: --

Organization: --

Installations: --

No of workers: 13

Basic raw materials: --

Annual production: --

Remarks: Manufacture and repair of jinrikshas, bicycles, and other vehicles

Name of plant: Ho-chi Automobile Company (British-owned)

Location of plant: Tsingtao, Chung-shan Lu

和記汽車公司

Date established: February 1932

Capital: 40,000 yuan

Organization: --

Installations: --

No of workers: 7

Basic raw materials: --

Annual production: --

Remarks: Automotive repair

Watch Manufacturing Industry

Name of plant: Chung-kuo Shih-eh'en Clock and Watch Company

中國時辰鐘表公司

Location of plant: Tsingtao, Ying-k'ou Lu

Date established: January 1933

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Capital: 20,000 yuan

Organizations: --

Installations: ---

No of workers: 31

Basic raw materials: --

Annual production: --

Remarks: Manufacture of watches

Name of plant: Pei-yang Clock Plant 北洋造鐘工廠

Location of plant: Tientsin, Third Special District, Ko-an Chieh

Date established: June 1932

Capital: 50,000 yuan

Organization: Private investment

Installations: --

No of workers: 105

Basic raw materials: Raw materials are imported mostly from Germany

Annual production: --

Remarks: Manufacture of clocks; trademark -- Pei-yang Ming-hsing

Name of plant: Te-shun-hsing Clock Factory 德順興鐘廠

Location of plant: Chefoo, Ch'ao-yang Chieh

Date established: July 1915

Capital: 50,000 yuan

Organization: ---

Installations: --

No of workers: Staff members, 12; workers, 189

Basic raw materials: --

Annual production: 45,000 watches

Remarks: 1932 profits, 18,000 yuan; 1933 profits, 35,000 yuan; 1934 profits, 6,000 yuan

Name of plant: Yung-k'ang Clock Factory 永康鐘廠

Location of plant: Chefoo, Ta Chieh

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Date established: March 1927

Capital: 20,000 yuan

Organization: --

Installations: --

No. of workers: Staff members, 15; workers, 135

Basic raw materials: --

Annual production: 40,000 watches

Remarks: 1932 profits, 1,000 yuan; 1933 profits, 15,000 yuan; 1934 profits, 1,000 yuan

Name of plant: Sheng-li Clock Factory

勝利鐘廠

Location of plant: Chefoo, Li-t'ung Chieh

Date established: January 1932

Capital: 10,000 yuan

Organization: --

Installations: --

No of workers: Staff members 5; workers, 60

Basic raw materials: --

Annual production: 5,500 watches

Remarks: 1932 losses, 1,200 yuan; 1933 losses, 2,500 yuan

Name of plant: Yung-yeh Clock Factory

永業鐘廠

Location of plant: Chefoo, Fa-yuan Chieh

Date established: December 1931

Capital: 25,000 yuan

Organization: --

Installations: --

No of workers: Staff members 4; workers, 58

Basic raw materials: --

Annual production: 8,000 watches

Remarks: 1932 losses, 7,500 yuan; 1933 profits 1,200 yuan

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